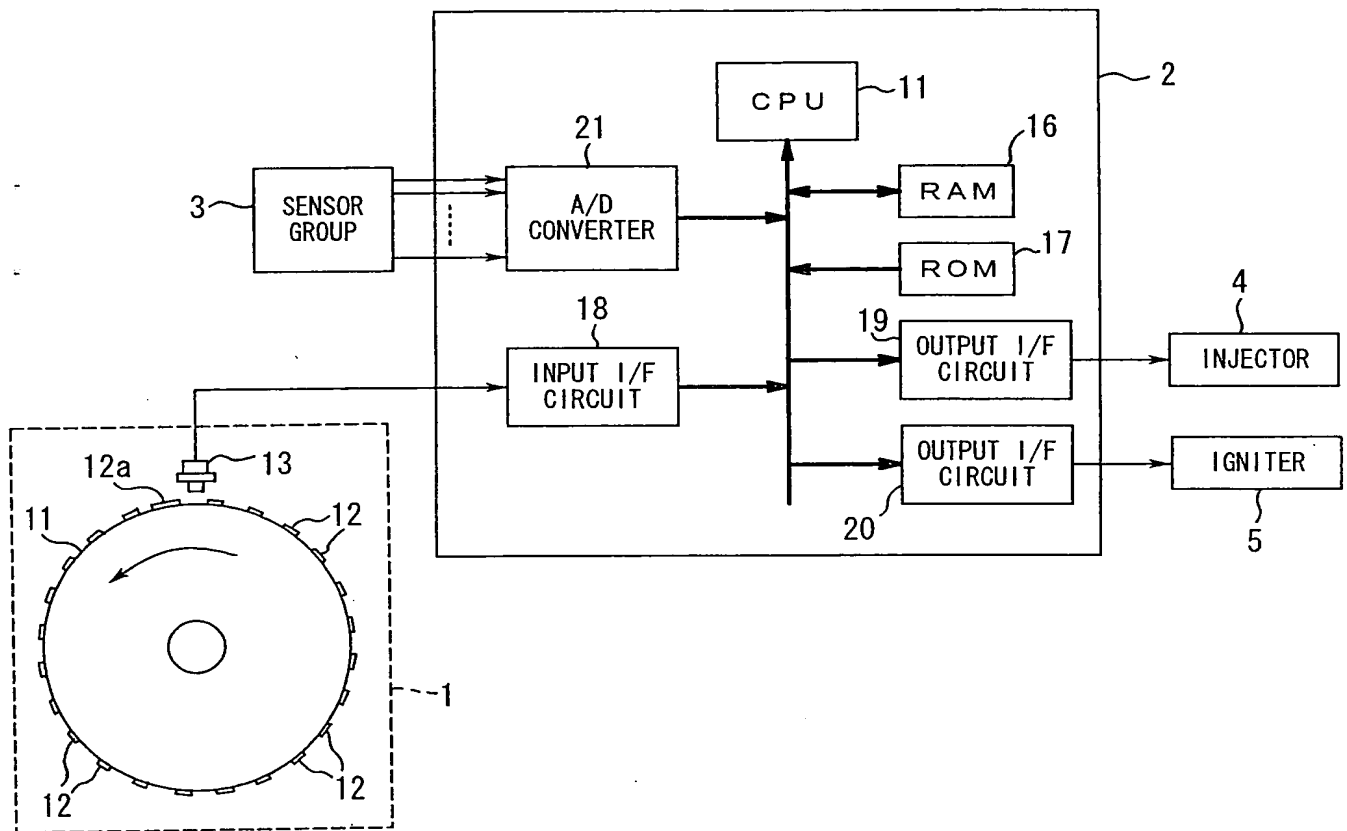


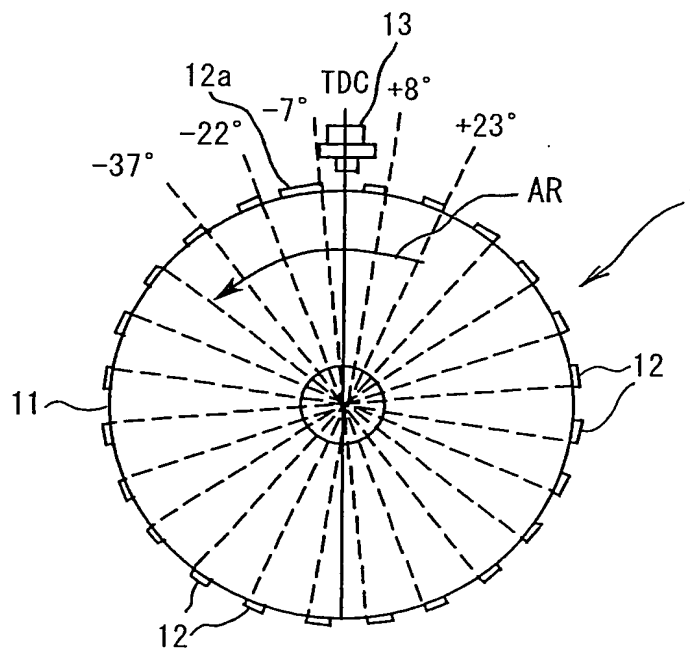
1/6

FIG. 1



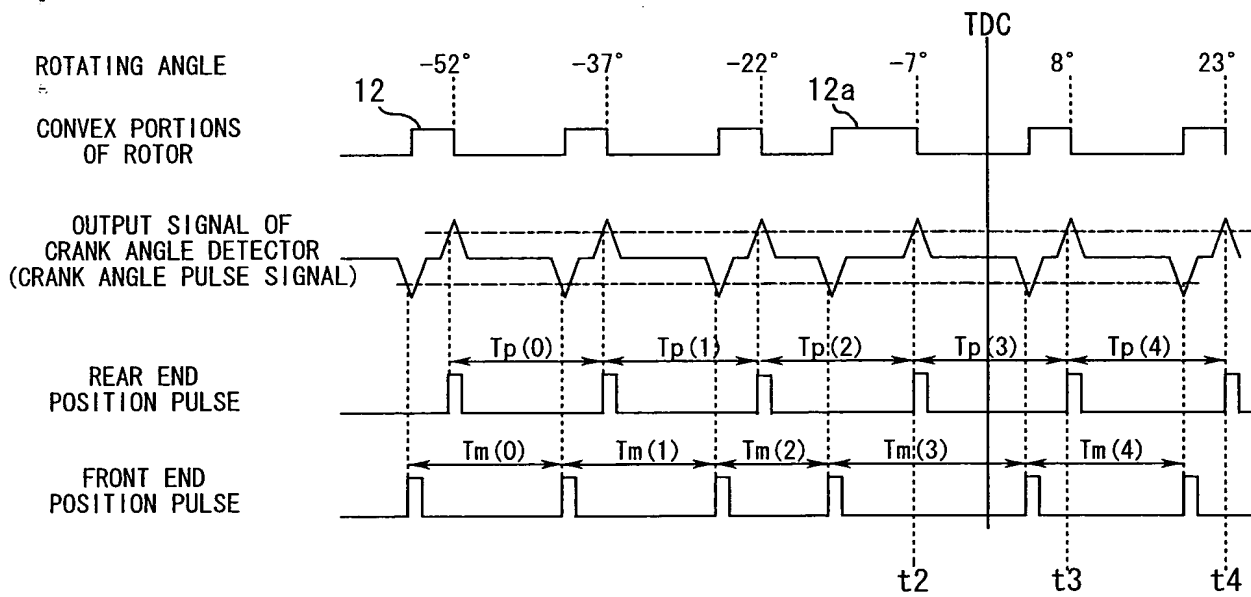
2/6

FIG. 2



3/6

FIG. 3



The flowchart, titled "CRANK SYNCHRONOUS PROCESSING", begins with a decision diamond S1: "IS FRONT END POSITION PULSE DETECTED?". If "No", it proceeds to S2: "SET PREVIOUS INTERVAL T_{m0} OF FRONT END POSITION PULSE TO T_{m1} ". If "Yes", it proceeds to S3: "SET INTERVAL T_m OF THIS TIME OF FRONT END POSITION PULSE TO T_{m0} ". Both S2 and S3 lead to decision diamond S4: "IS REAR END POSITION PULSE DETECTED?". If "No", it proceeds to S5: "SET PREVIOUS INTERVAL T_{p0} OF REAR END POSITION PULSE TO T_{p1} ". If "Yes", it proceeds to S6: "SET INTERVAL T_p OF THIS TIME OF REAR END POSITION PULSE TO T_{p0} ". Both S5 and S6 lead to S7: "TCSTG ← TCSTG + 1 STAGE INCREMENT".

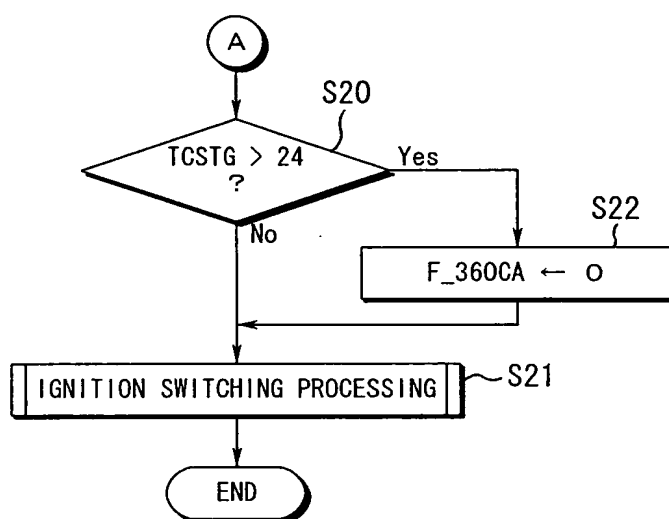
From S7, the flow enters a large processing block on the right. It starts with decision diamond S8: " $T_{m1}/T_{p1} \ll 1$?". If "Yes", it proceeds to S10: " $F_SHORT \leftarrow 1$ ". If "No", it proceeds to S9: " $T_{m1}/T_{p1} \gg 1$?". If "Yes", it proceeds to S15: " $F_LONG = 1$?". If "No", it proceeds to S12: " $F_SHORT = 1$?".

From S12, it proceeds to S13: " $F_LONG \leftarrow 1$ ". From S13, it proceeds to S16: " $TCSTG = 24$?". If "Yes", it proceeds to S17: " $F_360CA \leftarrow 1$ ", then S18: " $F_LONG \leftarrow 0$ ", and then S19: " $TCSTG \leftarrow 0$ ". If "No", it proceeds to S19.

From S19, it proceeds to S14: " $F_SHORT \leftarrow 0$ ". Both S10 and S14 lead to a junction point before decision diamond A. Both S15 and S16 lead to S14. Both S17 and S18 lead to S19, which then leads to S14. The flowchart ends at decision diamond A.

5/6

FIG. 5



6/6

FIG. 6

